

Preparation of highly reactive polyisobutenes

Abstract

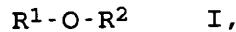
5

The process for preparing highly reactive polyisobutenes having a terminal vinylidene group content of more than 80 mol% and an average molecular weight of from 500 to 5000 dalton by cationic polymerization of isobutene in the liquid phase in the presence 10 of a complex comprising boron trifluoride at from +40°C to -60°C comprises polymerizing in the presence of a complex comprising boron trifluoride and

15 a) a primary alcohol having 1-20 carbon atoms or a secondary alcohol having 3-20 carbon atoms, or a mixture of these alcohols, and

b) an ether containing no tertiary alkyl groups and having the formula I

20



where R^1 and R^2 are primary or secondary alkyl groups having 3-10 carbon atoms, with the proviso that at least one of R^1 and R^2 25 is a secondary alkyl group.

30

35

40

45